



Modern Geothermal HVAC Engineering and Control Applications (P/L Custom Scoring Survey)

By Jay Egg, Greg Cunniff, Carl Orio

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Best practices for the design and engineering of geothermal HVAC systems

With a focus on market needs and customer goals, this practical guide explains how to realize the full potential of geothermal HVAC by integrating hydronic systems and controls at maximum capacity. *Modern Geothermal HVAC: Engineering and Control Applications* explains how to engineer and specify geothermal HVAC for building projects in varying geographic regions. Typical details on control parameters are provided. By using the proven methods in this innovative resource, you will be able to develop highly efficient, long-lasting, and aesthetically pleasing geothermal HVAC systems.

Coverage includes:

- Low-temperature geothermal or earth coupling
- Geothermal heat-pump equipment
- Variations in earth coupling
- Application of earth coupling with regard to site conditions
- Closed-loop earth coupling and fusion
- Intermediate heat exchanger usage in geothermal applications
- Standing column and open geothermal systems
- Fundamentals of comfort, psychrometrics, and thermodynamics
- Hydronic and air HVAC system basics
- Hydronic HVAC system equipment
- Variations and improvements to hydronic systems
- Control systems
- Load sharing and energy recovery
- Calculating system efficiencies, heat gain, and loss
- Geothermal rebates, incentives, and renewables legislation

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Editorial Review

From the Author

After writing my first book, *Geothermal HVAC, Green Heating and Cooling*, I was determined to get back to work and enjoy some of the validation that comes from being a published author of a professional/technical book from McGraw-Hill. Indeed, the validation came. The problem was that it was written for the layman; designed to provide readers with the knowledge needed to make educated decisions when entering into a geothermal HVAC project.

The demand was overwhelming for a comprehensive textbook on the subject of geothermal HVAC engineering. As a result, McGraw-Hill commissioned myself Greg Cunniff, and Carl Orio to write this book, *Modern Geothermal HVAC Engineering and Controls Applications*.

We are confident you will find the information for which you are looking within the pages of this book. There is no doubt it will be a bestseller, as it is already outpaced the sales of the first book, even before publication. Thank you for your interest.

About the Author

Jay's passion for geothermal air-conditioning and heating started during a repair to his own home air-conditioning system on Labor Day weekend in 1989. Frustrated by the extreme tropical climate which had added to the premature failure of his air-conditioning system, he modified his home air conditioner to become a ground water-cooled system.

As he explored the opportunities which resulted from this successful discovery, he found there were others that shared his vision.

Jay founded EggGeothermal in 1990 to provide geothermal HVAC systems to the Florida market. The result was immediate acceptance as EggGeothermal did very well with the technology, being featured on several network affiliated news stations and featured in many newspapers and magazines, receiving many opportunities to train and speak on geothermal technologies.

With the resurgence of interest in sustainable technologies, EggGeothermal entered into a new age of acceptance, and was able to quickly take its place among the leaders in renewable energy technologies, specifically geothermal sourced applications.

Jay and co-author Brian Howard accepted the invitation to write a professional book from McGraw-Hill on the subject, and *Geothermal HVAC, Green Heating and Cooling* was published to a worldwide audience in 2010. The resulting validation and interest from publishing of this book have provided numerous opportunities for Mr. Egg.

Jay and co-writer Greg Cunniff accepted the opportunity to write a graduate-level textbook for McGraw-Hill. *Modern Geothermal HVAC Engineering and Controls Applications* will be published to a worldwide audience in April of 2013.

Jay currently focuses his professional efforts on geothermal consulting, writing, and speaking engagements. Among his clients are federal, state and local governments, developers, associations, and private entities.

Users Review

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William Manwaring:

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